

d) a label probe hybridized to said first nucleic acid, wherein said label probe comprises at least one covalently attached ETM.

10. (new) A substrate according to claim 7, 8, or 9 wherein said substrate is a printed circuit board.

11. (new) A substrate according to claim 7, 8, or 9 wherein said electrodes are gold.

12. (new) A substrate according to claim 7, 8, or 9 wherein said ETM is a transition metal complex.

13. (new) A substrate according to claim 12 wherein said transition metal complex is ferrocene.

14. (new) A substrate according to claim 7, 8, or 9 wherein said SAM comprises an electroconduit-forming species (EFS).

15. (new) A substrate according to claim 7, 8, or 9 wherein said SAM comprises a conductive oligomer.

16. (new) A substrate according to claim 15 wherein said conductive oligomer is an alkyl chain.

17. (new) A colloid particle according to claim 7, 8, or 9 wherein said ETM is an organic ETM.